

INFORMATION DISCLOSURE CITATION

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RDID00112C11

Application Number

10/082.627

Applicant(s)

KRATZSCH, Peter et al.

Filing Date

October 29, 2001

Group Art Unit

1652
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*EXAMINER

INITIAL

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

13 Anthony, Christopher et al., "The structure and function of PQQ-containing quinoproteins," Current Science, Vol. 72, No. 10, 25 May 1997, pgs 716-727

14 Anthony, Christopher et al., "The structure and function of PQQ-containing quinoprotein dehydrogenases," Progress in Biophysics & Molecular Biology 69 (1998) 1-21

15 Cleton-Janson, Anne-Marie et al., "Cloning, characterization and DNA sequencing of the gene encoding the Mr 50 000 quinoprotein glucose dehydrogenase from Acinetobacter calcoaceticus," Mol. Gen. Genet (1989) 217:430-436

16 Cleton-Jansen, Anne-Marie et al., "Cloning of the Genes Encoding the Two Different Glucose Dehydrogenases from Acinetobacter Calcoaceticus," Antonie van Leeuwenhoek 56: 73-79 (1989)

17 Cleton-Jansen, Anne-Marie et al., "Cloning of the Gene Encoding Quinoprotein Glucose Dehydrogenase from Acinetobacter calcoaceticus: Evidence for the Presence of a Second Enzyme," Journal of Bacteriology, May 1988, p. 2121-2125

18 D'Costa, E.J. et al., "Quinoprotein Glucose Dehydrogenase and its Application in an Amperometric Glucose Sensor," Biosensors 2 (1986) 71-87

19 Dokter, Paul et al., "Cytochrome b-562 from Acinetobacter calcoaceticus L.M.D. 79.41" Biochem. J. (1988) 254, 131-138

20 Dokter, P. et al., "The in vivo and in vitro substrate specificity of quinoprotein glucose dehydrogenase of Acinetobacter calcoaceticus LMD 79.41," FEMS Microbiology Letters 43 (1987) 195-200

21 Dokter, Paul et al., "Purification and characterization of quinoprotein glucose dehydrogenase from Acinetobacter calcoaceticus L.M.D. 79.41," Biochem. J. (1986) 239, 163-167

22 Duine, J.A. et al., "Different Forms of Quinoprotein Aldose-(Glucose-) Dehydrogenase in Acinetobacter calcoaceticus," Arch Microbiol (1982) 131: 27-31

23 Duine, J.A. et al., "Energy Generation and the Glucose Dehydrogenase Pathway in Acinetobacter," The Biology of Acinetobacter, pgs. 295-312, 1991

24 Duine, J.A. et al., "The importance of natural diversity in redox proteins for achieving cofactor-electrode-directed electron transfer," Biosensors & Bioelectronics 10 (1995) 17-23

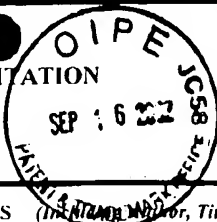
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*EXAMINER
INITIAL

OTHER DOCUMENTS (Initials, Author, Title, Date, Pertinent Pages, Etc.)

- | | |
|----|--|
| 25 | Duine, Johannes A. et al., "Quinoproteins: enzymes containing the quinonoid cofactor pyrroloquinoline quinone, topaquinone or tryptophan-tryptophan quinone," Eur. J. Biochem. 200, 271-284 (1991) |
| 26 | Goodwin, Pat M. et al., "The Biochemistry, Physiology and Genetics of PQQ and PQQ-Containing Enzymes," Advances in Microbial Physiology, Vol. 40, pgs 1-80 |
| 27 | Hill, David E. et al., "Mutagenesis with Degenerate Oligonucleotides: An Efficient Method for Saturating a Defined DNA Region with Base Pair Substitutions," Mutagenesis with Degenerate Oligonucleotides, pgs 558-569 |
| 28 | Igarashi, Satoshi et al., "Construction and Characterization of Mutant Water-Soluble PQQ Glucose Dehydrogenases with Altered Km Values-Site-Directed Mutagenesis Studies on the Putative Active Site," Biochemical and Biophysical Research Communications 264, 820-824 (1999) |
| 29 | Kaufmann, Norbert et al., "Development and evaluation of a new system for determining glucose from fresh capillary blood and heparinised venous blood," Glucotrend (18 pgs.)
(Additional bibliographic information has been requested and will be submitted when received) |
| 30 | Laurinavicius, Valdas et al., "A Novel Application of Heterocyclic Compounds for Biosensors Based on NAD, FAD, and PQQ Dependent Oxidoreductases," Monatshefte fur Chemie 130, 1269-1281 (1999) |
| 31 | Laurinavicius, V. et al., "Oxygen Insensitive Glucose Biosensor Based on PQQ-Dependent Glucose Dehydrogenase," Analytical Letters, 32(2), 299-316 (1999) |
| 32 | Leung, David W. et al., "A Method for Random Mutagenesis of a Defined DNA Segment Using a Modified Polymerase Chain Reaction," Technique-A Journal of Methods in Cell and Molecular Biology, Vol. 1, No 1 (August), 1989: pp 11-15 |
| 33 | Matsushita, Kazunobu et al., "Bacterial Quinoproteins Glucose Dehydrogenase and Alcohol Dehydrogenase," Matsushita and Adachi, Pgs 47-63
(Additional bibliographic information has been requested and will be submitted when received) |
| 34 | Matsushita, Kazunobu et al., "Quinoprotein D-glucose dehydrogenases in Acinetobacter calcoaceticus LMD 79.41: Purification and characterization of the membrane-bound enzyme distinct from the soluble enzyme," Antonie van Leeuwenhoek 56: 63-72 (1989) |
| 35 | Matsushita, Kazunobu et al., "Quinoprotein D-Glucose Dehydrogenase of the Acinetobacter calcoaceticus Respiratory Chain: Membrane-Bound and Soluble Forms Are Different Molecular Species," Biochemistry, 1989, 28, 6276-6280 |
| 36 | Matsushita, Kazunobu et al., "Soluble and Membrane-bound Quinoprotein D-Glucose Dehydrogenases of the Acinetobacter calcoaceticus: The Binding Process of PQQ to the Apoenzymes," Biosci. Biotech. Biochem., 59 (8), 1548-1555, 1995 |

EXAMINER

C. Walker

DATE CONSIDERED

7/9/04

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OTHER DOCUMENTS

(Including, but not limited to, Title, Date, Pertinent Pages, Etc.)

Oliphant, Arnold R. et al., "Cloning of random-sequence oligodeoxynucleotides," Gene, 44 (1986) 177-183

Olsthoorn, Arjen J. J. et al., "On the Mechanism and Specificity of Soluble, Quinoprotein Glucose Dehydrogenase in the Oxidation of Aldose Sugars," Biochemistry, 1998, 37, 13854-13861

Olsthoorn, Arjen J. J. et al., "Production, Characterization, and Reconstitution of Recombinant Quinoprotein Glucose Dehydrogenase (Soluble Type; EC 1.1.99.17) Apoenzyme of Acinetobacter calcoaceticus," Archives of Biochemistry and Biophysics, Vol. 336, No. 1, December 1, pp. 42-48, 1996

Oubrie, Arthur et al., "Active-site structure of the soluble quinoprotein glucose dehydrogenase complexed with methylhydrazine: A covalent cofactor-inhibitor complex," PNAS, October 12, 1999, Vol. 96, No. 21, 11787-11791

Oubrie, Arthur et al., "Structure and mechanism of soluble quinoprotein glucose dehydrogenase," The EMBO Journal, Vol. 18, No. 19, pp. 5187-5194, 1999

Oubrie, Arthur et al., "Structural requirements of pyrroloquinoline quinone dependent enzymatic reactions," Protein Science (2000), 9:1265-1273

Oubrie, Arthur et al., "The 1.7 Å Crystal Structure of the Apo Form of the Soluble Quinoprotein Glucose Dehydrogenase from Acinetobacter calcoaceticus Reveals a Novel Internal Conserved Sequence Repeat," Article No. jmbi, 1999.2766, J. Mol. Biol. (1999) 289, 319-333

Wens, Robert et al., "A Previously Undescribed Side Effect of Icodextrin: Overestimation of Glycemia by Glucose Analyzer," Peritoneal Dialysis International, Vol. 18, pp. 603-609, 1998

Ye, Ling et al., "High Current Density "Wired" Quinoprotein Glucose Dehydrogenase Electrode," Anal. Chem. 1993, 65, 238-241

Database WPI, Section Ch, Week 200066, Derwent Publications Ltd., London, GB, Class B04, AN 2000-679762, XP002168297

Database WPI, Section Ch, Week 200064, Derwent Publications Ltd., London, GB, Class B04, AN 2000-665126, XP0061730

Japanese Abstract, JP11243949, Takeshima Seiji et al.

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